Tanks for Fuel/Biofuel Storage

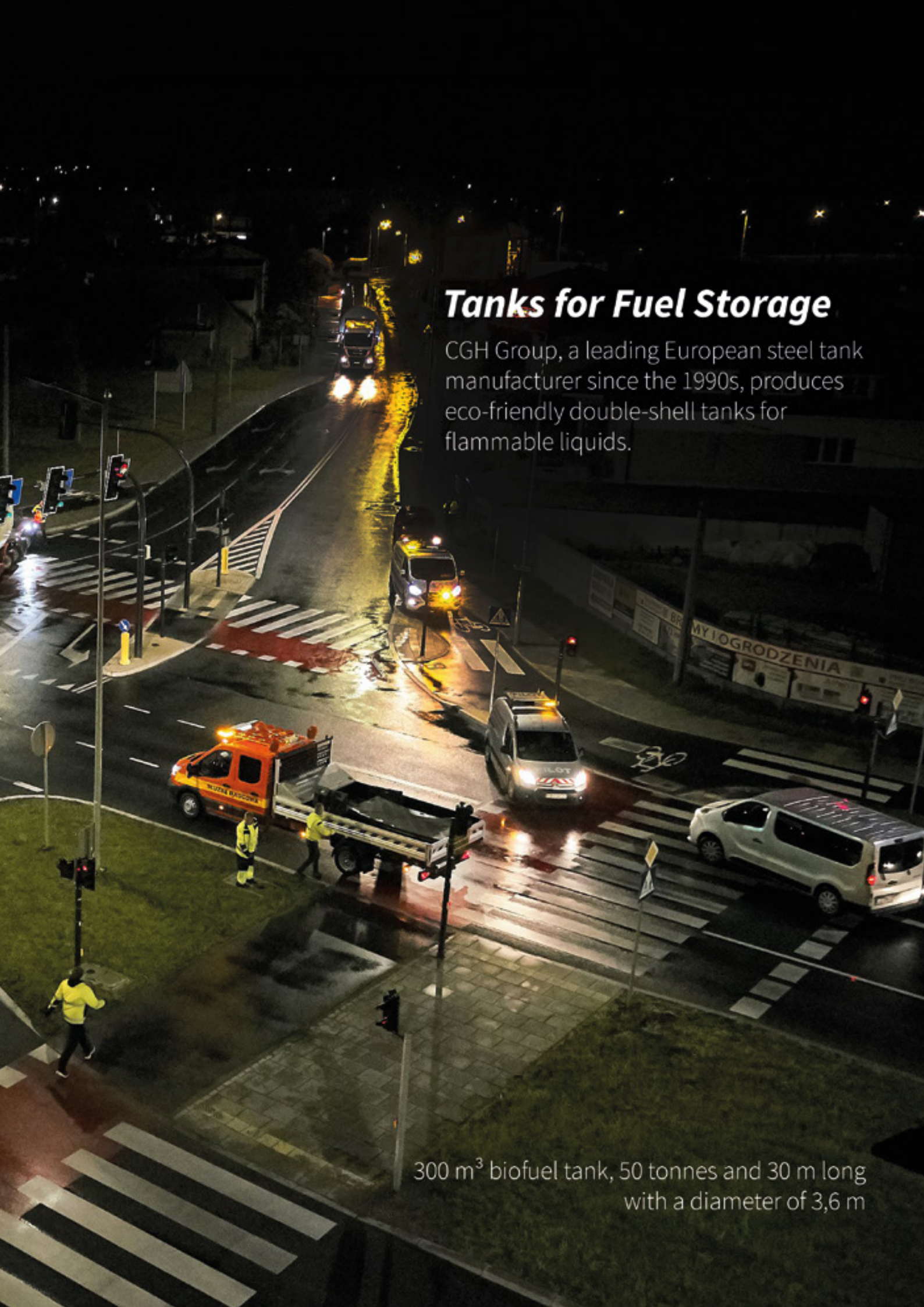
From 3 to 1250 m^3

- UNDERGROUND TANKS
- MOBILE STATIONS
- ADBLUE TANKS
- COMPACT STATIONS
- AVIATION FUEL TANKS
- TANKS FOR FUEL ADDITIVES
- BIOFUEL TANKS
- TANKS IN SEA CONTAINER

CGH Group

CGH Group

Tanks for storage of various fuels



Tanks for Fuel Storage

CGH Group, a leading European steel tank manufacturer since the 1990s, produces eco-friendly double-shell tanks for flammable liquids.

300 m^3 biofuel tank, 50 tonnes and 30 m long with a diameter of 3,6 m

Our range of products includes the following types of fuel tanks:

- Double-shell underground tanks
- Single- and double-shell tanks for storing AdBlue
- Container stations
- Biofuel tanks
- Jet fuel tanks

Double-shell tanks are intended to store products:

- On petrol stations
- On fuel depots
- At airports
- For heating
- For storing chemical products
- For storing production materials

Underground fuel/biofuel storage tanks

Underground and aboveground double-skinned steel tanks meet European standards for storing flammable and hazardous liquids.

Featuring two steel jackets insulated with Polyurethane and interstitial space monitoring, they offer a safe and eco-friendly fuel storage solution. Our production undergoes rigorous oversight to ensure compliance with technical requirements and high-quality standards.

Technical data

- Tank volumes up to 1250 m^3
- Norms: EN 12285-1 Class A or Class B (underground), EN 12285-2 (aboveground), or AD 2000
- Steel grade - S235JR, optional 1.4307, 1.4404
- Single or multi-chamber tanks
- Working pressure: max 0,5 bar
- Working temperature: from -20 °C to + 50 °C

Anticorrosion protection:

- Grit-blasted to grade Sa 2,5 according to PN-ISO 8501-1
- Underground outer skin protected with min. 800µm Polyurethane coating, tested at 10 kV/14 kV
- Aboveground outer skin with corrosion protection in class C3 as standard, optional in class C4 or C5
- Optional internal anti-corrosion protection suitable for stored medium

Safety

Our tanks fufill safety requirements of various fuel storage. We hold all necessary certificates to manufacture such tanks, issued by Notified Body approved by TÜV Nord, TDT, WDT, DIBt, SVTI.

Application

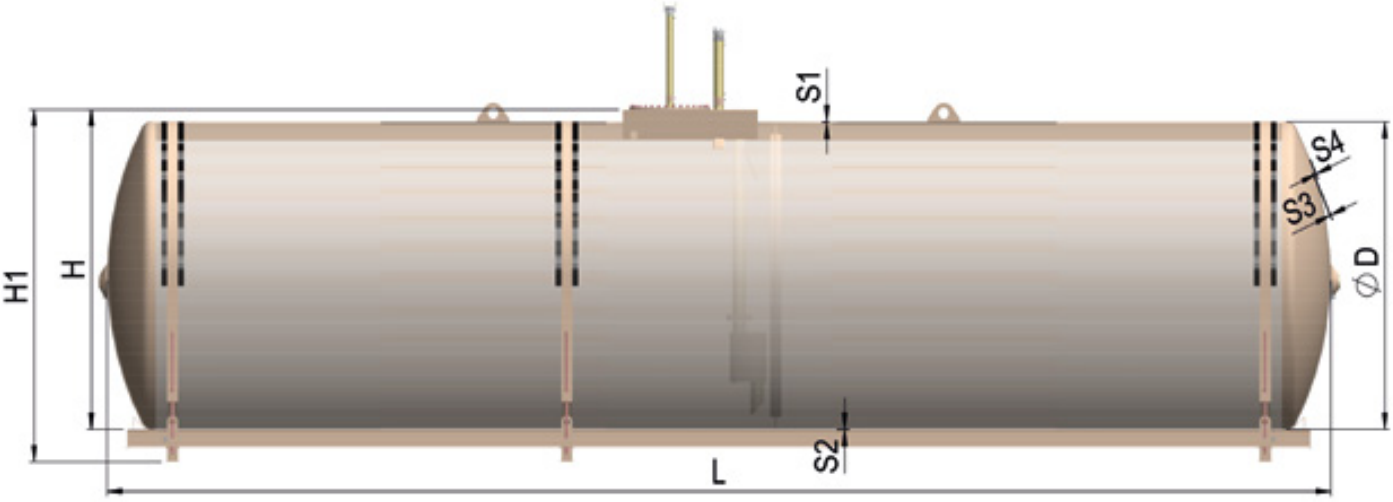
Storage of flammable and non-flammable liquids harmful to the environment with a density up to 1,1 kg/dm^3 for EN 12285 Class A tanks and up to 1,9 kg/dm^3 for tanks EN 12285 Class B and AD 2000.

Tightness

Factory pressure test of both the inner tank and the interstitial space according to the standard are given in the table below. For tanks with non-standard parameters, test pressure values and test types are adapted to applicable standards and regulations.

EN 12285-1 and EN 12285-2	Class A	0,3 bar/0,4 bar
EN 12285-1 and EN 12285-2	Class B	2,0 bar/0,6 bar
AD2000	–	2,0 bar/0,6 bar

Underground tanks according to EN 12285-1 norm, Class A & B

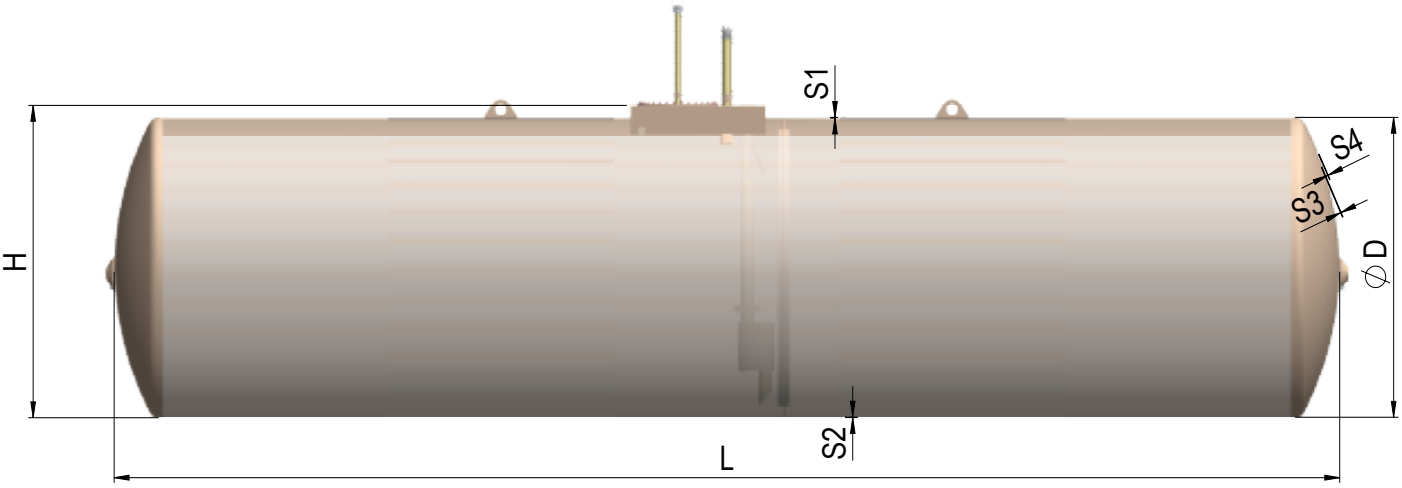


Volume	Diameter	Lenght	Height	Height with speed chasis	Total weight				Additional chamber weight		Wall thickness				Dished-end thickness			
					Class A		Class B		Class A	Class B	Class A		Class B		Class A		Class B	
V	D	L	H	H1	Single skin	Double skin	Single skin	Double skin			S1	S2	S1	S2	S3	S4	S3	S4
[m^3]	[mm]	[mm]	[mm]	[mm]	[kg]	[kg]	[kg]	[kg]	[kg]	[kg]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
3	1600	2260	1770	2030	723	1039	739	1055	351	351	5	3	5	3	5	3	5	3
5		3260			934	1351	950	1367										
8		4760			1250	1817	1265	1833										
10		5760			1461	2129	1476	2144										
13		7260			1779	2597	1794	2613										
16		8760			2096	3066	2112	3081										
10	2000	3880	2170	2430	1523	2146	1538	2162	522	522	6	3	6	3	6	3	6	3
13		4880			1836	2586	1852	2601										
16		5880			2150	3025	2166	3040										
20		6880			2466	3466	2481	3482										
25		8880			3093	4345	3108	4360										
30		10380			3617	5057	3633	5073										
35		11880			4088	5716	4103	5732										
16	2200	5010	2370	2630	2044	3398	2348	3703	601	670	6	4	7	4	6	5	7	5
20		6010			2389	3974	2749	4334										
25		7510			2907	4837	3350	5280										
31		9010			3486	5762	4012	6288										
35		10510			4003	6625	4612	7234										
40		11510			4349	7201	5013	7865										
46		13010			4926	8123	5673	8870										
50		14010			5271	8699	6074	9502										
20	2500	5020	2670	2930	2366	3962	2720	4315	730	818	6	4	7	4	6	5	7	5
25		6020			2757	4615	3174	5031										
30		7020			3150	5269	3630	5749										
40		9020			4002	6645	4607	7250										
50		11020			4788	7954	5519	8685										
60		13020			5640	9329	6496	10186										
70		15020			6444	10657	7426	11639										
40	2900	7130	3070	3330	4286	6831	5407	7952	1045	1279	7	4	9	4	7	5	9	5
50		8630			5154	8155	6494	9494										
60		10130			5947	9403	7506	10962										
70		11630			6761	10672	8538	12449										
80		13130			7631	11998	9626	13993										
100		16130			9215	14493	11648	16926										
120	3000	18150	3170	3430	10815	16926	13640	19751	1108	1357	7	4	9	4	7	5	9	5

*Other/larger volumes available on request

S1 - Inner wall
S2 - Outer wall
S3 - Inner dished-end
S4 - Outer dished-end

Underground tanks according to AD 2000 norm

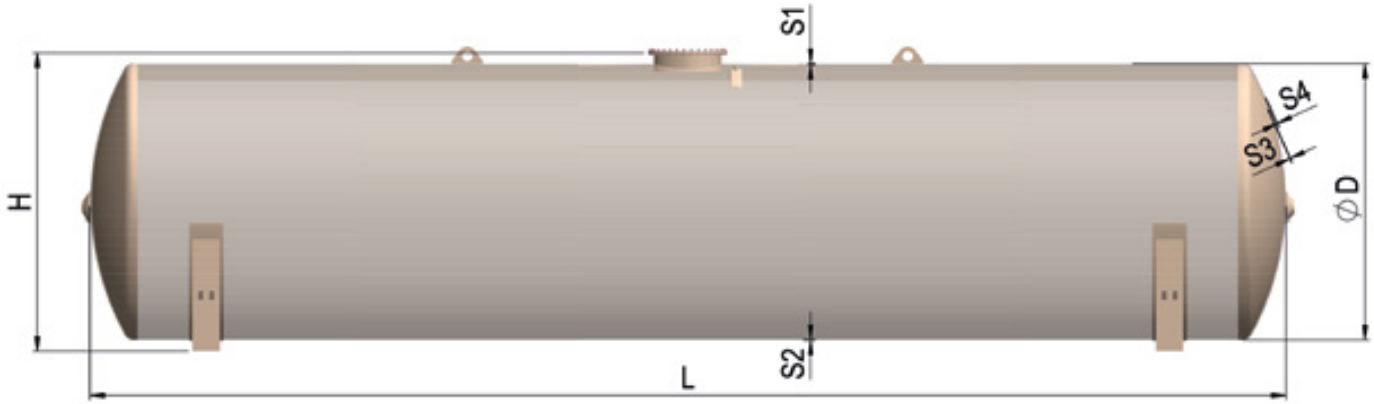


Volume	Diameter	Lenght	Height	Height with speed chasis	Total Weight		Additional chamber weight	Wall thickness		Dished-end thickness	
V	D	L	H	H1	single-wall	double-wall		S1	S2	S3	S4
m^3	[mm]	[mm]	[mm]	[mm]	[kg]	[kg]	[kg]	[mm]	[mm]	[mm]	[mm]
120	2900	18950	3140	3400	14543	20732	1289	9	4	5	9
120	3000	18150	3240	3500	13910	20021	1367	9	4	5	9
150	3200	19750	3440	-	18041	25110	1671	10	4	5	10
200		26250			23765	30834					
150	3400	17790	3640	-	17681	24531	1862	10	4	5	10
200		23290			22897	31705					
250		28790			27943	38710					
300		34290			33499	46224					
150	3600	15870	3840	-	16974	23527	2064	10	5	5	10
200		20870			22047	30485					
250		25870			27121	37444					
300		30370			31535	43555					

*Other/larger volumes available on request

S1 - Inner wall
S2 - Outer wall
S3 - Inner dished-end
S4 - Outer dished-end

Aboveground tanks according to EN 12285-2 norm, Class A & B

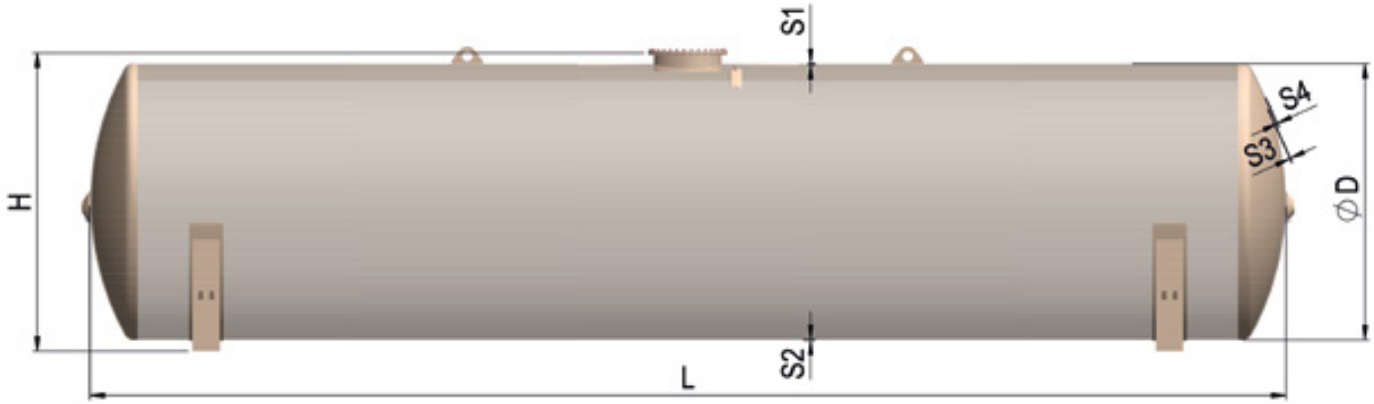


Volume	Diameter	Lenght	Height	Total weight				Additional chamber weight		Wall thickness				Dished-end thickness			
				Class A		Class B		Class A	Class B	Class A		Class B		Class A		Class B	
V	D	L	H	single-wall	double-wall	single-wall	double-wall			S1	S2	S1	S2	S3	S4	S3	S4
m^3	[mm]	[mm]	[mm]	[kg]	[kg]	[kg]	[kg]	[kg]	[kg]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
3	1600	2080	1870	720	1036	765	1082	351	351	5	3	5	3	5	3	5	3
5		3080		925	1342	970	1387										
8		4580		1233	1800	1278	1846										
10		5580		1438	2106	1483	2151										
13		7080		1745	2564	1790	2609										
16		8580		2053	3022	2098	3068										
10	2000	3700	2270	1612	2235	1658	2281	522	522	6	3	6	3	6	3	6	3
13		4700		1918	2667	1964	2713										
16		5700		2225	3100	2271	3146										
20		6700		2532	3532	2577	3578										
25		8700		3145	4397	3190	4442										
30		10200		3656	5096	3702	5142										
35		11700		4116	5745	4162	5791										
20	2500	4840	2770	2591	4187	3055	4650	730	818	6	4	7	4	6	5	7	5
25		5840		2974	4832	3501	5358										
30		6840		3358	5477	3947	6066										
40		8840		4190	6832	4905	7547										
50		10840		4956	8122	5797	8963										
60		12840		5788	9477	6754	10444										
70		14840		6574	10787	7666	11880										
40	2900	6950	3170	4579	7124	5965	8510	1045	1279	7	4	9	4	7	5	9	5
50		8450		5432	8432	7036	10037										
60		9950		6208	9664	8031	11487										
70		11450		7003	10915	9045	12957										
80		12950		7856	12223	10117	14484										
100		15950		9408	14686	12106	17384										
120	3000	18150	3270	11016	17127	14156	20267	1108	1357	7	4	9	4	7	5	9	5

*Other/larger volumes available on request

S1 - Inner wall
S2 - Outer wall
S3 - Inner dished-end
S4 - Outer dished-end

Aboveground tanks according to AD 2000 norm



Volume	Diameter	Lenght	Height	Total Weight		Additional chamber weight	Wall thickness		Dished-end thickness	
V	D	L	H	single-wall	double-wall		S1	S2	S3	S4
m^3	[mm]	[mm]	[mm]	[kg]	[kg]	[kg]	[mm]	[mm]	[mm]	[mm]
120	2900	18950	3240	14437	20627	1406	9	4	9	5
120	3000	18150	3340	14393	20504	1492	9	4	9	5
150	3200	19750	3540	18259	25328	1671	10	4	10	5
200		26250		23838	30907					
150	3400	17790	3740	17844	24694	1862	10	4	10	5
200		23290		22590	31398					
250		28790		27336	38102					
300		34290		32081	44806					
150	3600	15870	3940	17048	23601	2064	10	5	10	5
200		20870		21806	30244					
250		25870		26374	36697					
300		30370		30485	42504					

*Other/larger volumes available on request

S1 - Inner wall
S2 - Outer wall
S3 - Inner dished-end
S4 - Outer dished-end

300 m³ tank for biofuel.

MAN
CONVOI EXCEPTIONNEL

Diesel tanks

- Underground, horizontal, double-wall, multi-compartment tank, made of S235 steel
- Capacity: 60 m³, diameter: 2900 mm, compartment division 40 m³ / 20 m³
- Medium: diesel
- Norm: EN12285-1
- Working pressure: atmospheric
- Operating temperature: -20 °C / +50 °C

Biofuel tanks

- Aboveground, horizontal, double-wall tanks, made of S235 steel
- Capacity: 100 m^3, diameter: 2900 mm
- Medium: biofuel, RME
- Norm: EN12285-2
- Working pressure: atmospheric
- Operating temperature: -20 °C / +50 °C

Crude oil tanks

- Aboveground, horizontal, double-wall tank, made of steel S235 / P355NH, NACE
- Capacity: 100 m^3, diameter: 2900 mm
- Medium: crude oil
- Norm: EN13445
- Working pressure: 0,45 bar
- Operating temperature: -29 °C / +50 °C
- Corrosion resistance class: C4M

Containerised diesel tanks

- Aboveground, double-walled tanks, made according to EN12285-2 from S235 steel.
- Capacity: 40 m^3, diameter: 2200 mm
- Medium: diesel fuel
- Design temperature: -20 °C / +50 °C
- Tank adapted in a marine container 40'HC and equipped in EX-rated immersion heater piping

JET A1 tanks

- Aboveground, horizontal, double-wall tanks, made of S235JR steel
- Capacity: 30 m^3, diameter: 2500 mm, length: 6800 mm incl. cabinet for equipment and pumps.
- Medium: JET A-1 aviation fuel
- Norm: EN12285-2 class A
- Design temperature: -20 °C / +50 °C

Tanks for AdBlue

- Underground, horizontal, double-wall tanks,
- Capacity: 10 m³, diameter: 1600 mm
- Cover and piping made of AISI 304L stainless steel
- Internal painting resistant to AdBlue
- Medium: AdBlue
- Norm: EN12285-1
- Working pressure: atmospheric
- Design temperature: -20 °C / +50 °C

Tanks for fuel additives

- Aboveground, horizontal, single-wall tanks, made of 304 stainless steel
- Capacity: 50 m³, diameter: 2500 mm, three chambers, each with a capacity of 16,88 m³
- Medium: fuel additives
- Norm: EN12285-2, class A
- Working pressure: atmospheric,
- Operating temperature: -20 °C / +50 °C

Tanks for FAME methyl esters

- Aboveground, horizontal, double-wall tanks made of carbon steel
- Capacity: 300 m³, diameter: 3600 mm
- Medium: FAME esters
- Norm: AD2000
- Working pressure: atmospheric
- Operating temperature: -20 °C / +50 °C
- Ready for insulation
- Equipped with an external ladder and a service platform with dimensions of 5850 × 1275 mm

Tanks for ethanol

- Underground, horizontal, double-wall tanks, made of S235 steel
- Capacity: 200 m³, diameter: 3400 mm
- Medium: ethanol
- Norm: AD2000
- Working pressure: atmospheric
- Operating temperature: -29 °C / +50 °C
- The tanks are equipped with two DN300 nozzles for the installation of agitators.
- Measures & Weights approved liquid level probes for operation in a customs warehouse.

Mobile stations

CG1

Mobile fuel stations offer flexibility by reaching remote areas and eliminating the need for expensive permanent facilities, reducing costs.

Tank characteristics:
- Design according to: EN 12285-2 class A or B
- Technical documentation approved by Notified body
- Basic material – S235JR according to EN10025-1
- Single or multi-compartment tank
- Working temperature from -40 °C to +50 °C

Models CG3 and CG5:
- Walls made from trapezoid plates, sandwich panels possible
- Electric shutter doors
- Ex lamps

Options:
- Stickers with logo on the sides
- Loading pumps

CG2

CG4

CG5

CG3

Compact stations

Compact Stations are CGH's answer for uncomplicated to erect and quickly operational petrol station in the vibrant cities and along the country roads in any part of the world. The design of a Compact Station is driven by two main objectives:

- Fully pre-assembled and tested in the factory.
- Straightforward on-site installation.

Fuel storage capacities range from 30 to 120 m^3 with single or paired tanks meeting EN 12285-1 standard.

Tanks are double-walled, multi-compartment, accommodating 3 to 4 fuel grades.

A polyurethane-coated steel central chamber houses station components, with built-in manifold for distribution flexibility.

Tanks are strapped onto a speed chassis supporting a canopy frame, with an alignment frame ensuring correct positioning. All necessary pipes and accessories are included.

Accesories - monitoring systems

SiteSentinel® Nano™

- Measure the amount of liquids in the tank with a magnetostrictive probe,
- Control the interstitial space of the tank, e.g. with sensors to include gap, optical or vapour sensors

SGB dry monitoring system

- Simple assembly of the device
- Maintenance-free operation of the device
- Easy data analysis – an alarm in the event of a leak

GOK LAG 2000 wet monitoring system

- Aboveground double-skin tanks compliant with EN 12285-2 & SANS 10131
- Underground double-skin tanks compliant with EN 12285-1 & SANS 1535

OCIO – fuel level monitoring system

- Easy installation and operation of the device
- LCD and user-friendly interface based on graphic symbols
- Maintenance-free operation of the device
- Easy data analysis

Tank Ranger 5

- Supports up to 4 different types of detection sensors
- It can operate in a dry and wet system
- Features a built-in visual and sound alarm
- As a standard, 2 external devices can be controlled

Accesories for underground tanks

HDPE tank sumps in different sizes

- Riser with adjustable height
- No special tools or equipment are required for installation
- Large surface for all required pipeline connection inputs
- Vacuum tested for water tightness
- Anti-corrosive

MwayPro composite covers

- Available in load Classes B (125 kN), C (250 kN) and D (400 kN)
- Anti-slip surface
- Lightweight composite materials
- Noiseless in traffic
- Suitable for installation on public roads
- All composite covers are tested in accordance with EN 124:2015

EasyFit pipe entry fittings

- Installation in each type of a sump: steel, PE, GRP
- Only one borehole, suitable both for rectangular and round sumps
- Compatible with all brands and dimensions of pipes available
- Easy installation carried out by one person owing to selflocking aligning studs

Sumps for Green Area

- Providing access to manholes of an underground tank
- Polyurethane coated, primer coated or galvanized
- Various cover materials: hot-dip galvanised steel
- Anti-slip cover surface – checker plate

Accesories for underground tanks

Concrete Shaft Cover

- Allows for unrestricted traffic flow
- Waterproof, protected against rain water
- Equipped with a hot dip galvanized steel cover
- Outer surface made of corrugated plate eliminates slipping
- A concrete anti-slipping kerb

Telescopic sumps

- ST manholes provide access to the manholes of the underground tank under the roadway or under the parking lot surface.
- They allow easy and quick installation on the tank by welding or bolting them to the tank.

Speed Chassis

- Saving on the foundation costs
- Time saving
- Safety when unloading and clamping

Speed chassis application video

Anchor Bands

- Steel clamps utilized to prevent tank from buoyancy from groundwater
- Quick and effective fixing of a tank to foundations
- Galvanized

Reinforced concrete beams

- Anchoring the tank to prefabricated ballast beams
- Delivery of the anchoring system with the tank
- Time saving

CGH Polska sp. z o.o.
ul. Srebrna 39
85-461 Bydgoszcz, Poland
www.cgh.com.pl
info@cgh.com.pl

CGH Belgium nv
Rijksweg 10C
B-2880 BORNEM
www.cghbelgium.com
info@cghbelgium.com

CGH Nordic A/S
Jernbanegade 8, 1
DK-7160 Tørring
www.cghnordic.com
info@cghnordic.com